

GCSE

GEOGRAPHY A

Unit A671: *Extreme Environments*

Specimen Paper

F

J380

Time: 1 hour

Candidates answer on the question paper.

Additional materials:
Resource Booklet

Candidate
Forename

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Candidate
Surname

--	--	--	--	--	--

Centre
Number

--	--	--	--	--

Candidate
Number

--	--	--	--

INSTRUCTIONS TO CANDIDATES

- Write your name in capital letters, your Centre Number and Candidate Number in the boxes above.
- Use black ink. Pencil may be used for graphs and diagrams only.
- Read each question carefully and make sure you know what you have to do before starting your answer.
- Answer **all** the questions.
- Do not write in the bar codes.
- Do not write outside the box bordering each page.
- Write your answer to each question in the space provided.

INFORMATION FOR CANDIDATES

- The number of marks for each question is given in brackets [] at the end of each question or part question.

The total number of marks for this paper is 50.

FOR EXAMINER'S USE

A	
B	
TOTAL	

This document consists of **8** printed pages.

Section A – Hot DesertsAnswer **all** questions**1**

- (a) Name **ONE** hot desert environment that you have studied.

.....
.....[1]

- (b) State **TWO** reasons why that desert environment is extreme.

1
.....
2
..... [2]

- (c) Name and describe **ONE** physical process that may occur in a hot desert environment.

You may draw a diagram to help you.

.....
.....
.....

[3]

Study **Fig. 1** below and **Fig. 2** in the separate Resource Booklet.

- (d)** Describe the climate shown by the graph in **Fig. 1**.

Temperature.....

.....

.....

Rainfall

.....

..... **[4]**

- (e)** Study **Fig 1** and **Fig 2**. Complete the sentences below using words from the list below.

Vegetation

dry

industry

hot

cold

wet

The climate is and

This means there is not much

[3]

- 2 (a)** The following statements explain how desertification can happen. They are not in the correct order.

Put numbers in the boxes to complete the correct order of the statements.

The first one has been done for you.

The soil becomes loose

Soil is blown away

Less rain falls for a number of years

The soil becomes dry

The land turns to desert

[2]

- (b)** Explain **ONE** problem caused by desertification for each of the following:

Environment

.....

.....

People

.....

.....[4]

Section A Total [19]

Section B – Your chosen extreme environment

Your answers in this section must refer to **either** a polar environment **or** a mountain environment

Circle the extreme environment you have studied: polar mountain

3 (a) State **THREE** reasons why your chosen environment is 'extreme'

- 1
- 2
- 3 **[3]**

(b) Explain why your extreme environment is challenging to local people **and** visitors.

.....

.....

.....

.....

.....

.....

.....

..... **[6]**

(c) You have been asked to organise an expedition to your chosen extreme environment.

State **FOUR** items that you would have to take in order to survive.

Give **ONE** reason for each choice.

.....

.....

.....

.....

.....

.....

.....

.....

.....

..... [8]

- 4 (a) Describe **ONE** source that you found useful when studying your extreme environment.
Explain why it was helpful.

.....

.....

.....

.....

.....

..... [4]

- (b) (i) How do you think your chosen extreme environment may change in the future?

.....

.....

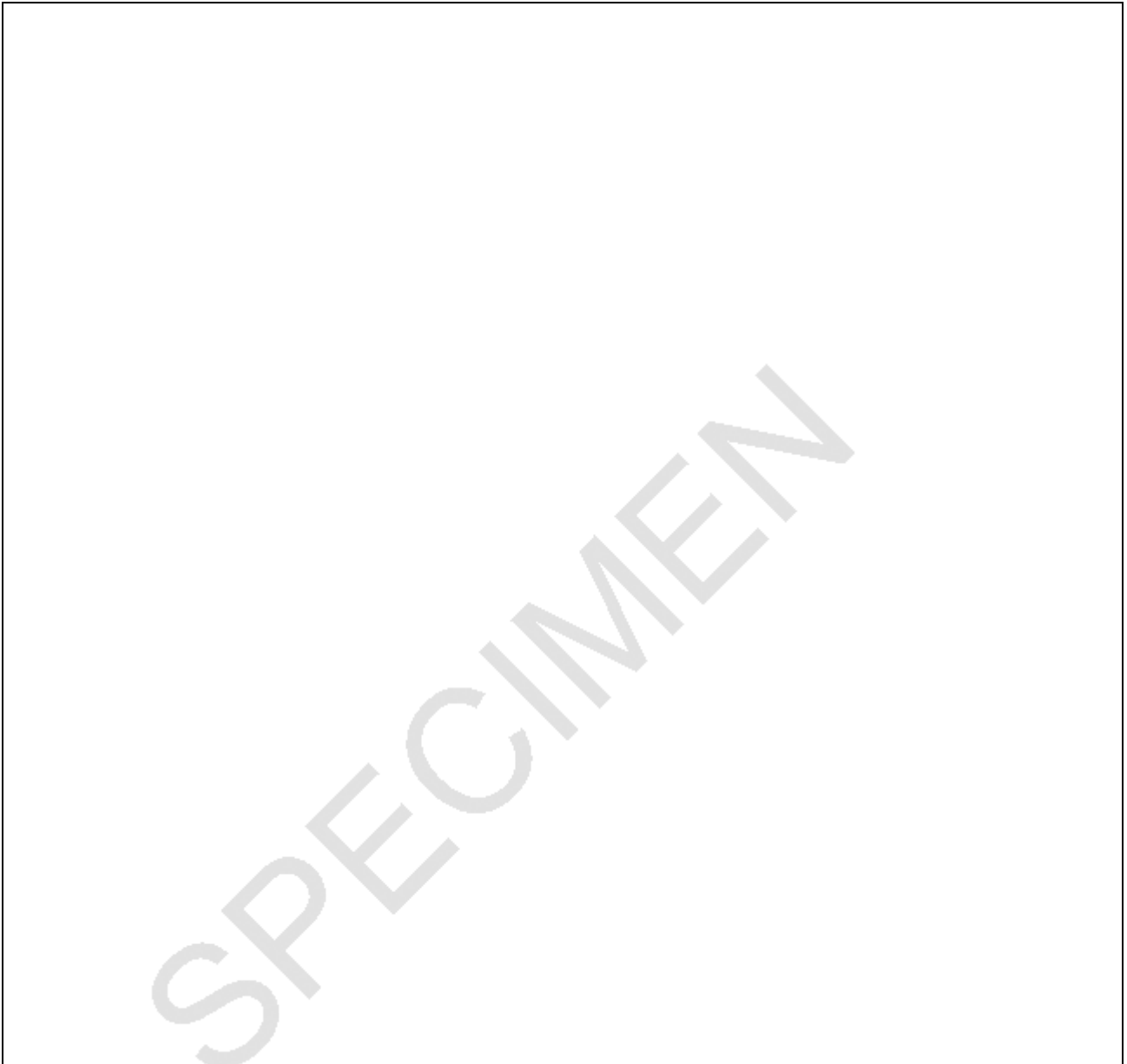
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.....

.....

..... [4]

- (b) (ii)** Design a poster that will tell people how important it is to look after your extreme environment.



[6]

Section B Total [31]

Paper Total [50]

SPECIMEN

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The maximum mark for this paper is 50.

Section A - Hot Deserts		
Question Number	Answer	Max Mark
1(a)	<p>Name <u>ONE</u> hot desert environment that you have studied.</p> <p>Any acceptable desert name.</p>	[1]
1(b)	<p>State <u>TWO</u> reasons why that desert environment is extreme.</p> <p>Any two of the following:</p> <p>High daytime temperatures ✓ low night time temperatures ✓ lack of rainfall ✓ isolation idea ✓ lack of resources idea ✓</p>	[2]
1(c)	<p>Name and describe <u>ONE</u> physical process that may occur in a hot desert environment. You may draw a diagram to help you.</p> <p>Insolation weathering ✓ exfoliation ✓ granular disintegration ✓ onion skin ✓ freeze thaw ✓ chemical weathering ✓</p> <p>Process name [1], accurate description either using annotated and accurate diagram and or written text [1+1]</p>	[3]
1(d)	<p>Describe the climate shown by the graph in Fig. 1.</p> <p>Any three valid, descriptive points.</p> <p>E.g. Some months have no precipitation ✓ any NAMED reference to temperature ✓ correlation between temperature and precipitation ✓</p> <p>ALLOW ONE for development (i.e. use of data)</p>	[4]
1(e)	<p>Study <u>Fig 1</u> and <u>Fig 2</u>. Complete the sentences below using words from the list below.</p> <p>Dry hot vegetation.</p>	[3]
2(a)	<p>The following statements describe how desertification can happen. They are not in the correct order.</p> <p>Put numbers in the boxes to complete the correct order of the statements.</p> <p>The first one has been done for you.</p> <ol style="list-style-type: none"> 1. Less rain falls for a number of years. 2. The soil becomes dry. 3. The soil becomes loose. 4. Soil is blown away. 5. The land turns to desert. <p>TWO or THREE ✓ for one mark.</p> <p>FOUR correct ✓✓ for both marks.</p>	[2]

Section A - Hot Deserts		
Question Number	Answer	Max Mark
2(b)	<p>Explain <u>ONE</u> problem caused by desertification for each of the following – environment, people.</p> <p>Points mark – 1 mark for valid point, 1 mark for development</p> <p>INDICATIVE CONTENT</p> <p>Environment</p> <p>✓Land exhausted of nutrients ✓ Soil is lost ✓through wind erosion ✓ Crops no longer grow ✓ Overgrazing ✓Nomadic farmers allow grazing on marginal land ✓ Land stripped bare making soil more vulnerable to erosion ✓ More deforestation ✓Vegetation felled – fuel wood needed ✓ Protective vegetation disappears makes soil more vulnerable to erosion ✓</p> <p>People</p> <p>more food needed ✓ Poorer grazing ✓Lower crop production ✓ Underground water reserves used up ✓ Fires ✓ started from ash becoming out of control ✓ Land stripped bare making soil more vulnerable to erosion ✓ Migration ✓Refugees from civil wars/droughts/persecution ✓ Puts pressure on food/water resources ✓</p>	[4]
Section A Total		[19]

Section B - Your Chosen Extreme Environment		
Question Number	Answer	Max Mark
	<p>All answers must refer to <u>either</u> mountain environments <u>or</u> polar environments in order to gain credit.</p>	
3(a)	<p>State <u>THREE</u> reasons why your chosen environment is 'extreme'?</p> <p>Allow any THREE specific references to temperature, aridity/precipitation, relief/topography, isolation, altitude, danger.</p>	[3]
(b)	<p>Explain why your extreme environment is challenging to local people <u>and</u> visitors</p> <p>Local people: Ideas such as harsh living environment, struggle for survival, possible lack of income, negative impacts of tourism.</p> <p>Visitors: Ideas such as the notion of danger, physical challenge, climatic challenges, clothing/equipment choice.</p> <p>Levels of response marking</p> <p>MARKS INDICATIVE CONTENT</p> <p>Level 3 [5-6 marks] Challenges are described with explanatory detail, perhaps with specific examples given.</p> <p>At least THREE challenges mentioned.</p> <p>Challenges relate to local people AND visitors.</p> <p>Level 2 [3-4 marks] Challenges are described with some basic detail, together with some explanation.</p> <p>At least TWO challenges mentioned.</p> <p>Challenges relate to local people AND visitors.</p> <p>Level 1 [1-2 marks] Challenge is identified and described in basic terms.</p> <p>ONE challenge mentioned.</p> <p>Challenge is related to local people OR visitors.</p> <p>0 marks</p> <p>No evidence submitted or response does not address the question.</p>	[6]

Section B - Your Chosen Extreme Environment		
Question Number	Answer	Max Mark
(c)	<p>You have been asked to organise an expedition to your chosen extreme environment.</p> <p>State FOUR items that you would have to take in order to survive.</p> <p>Give ONE reason for each choice.</p> <p>Four items with explanation for each. Items may relate to clothing, food, survival etc.</p> <p>Indicative content:</p> <p>Warm clothing ✓ to avoid chill/frostbite/survive sub-0 temperatures ✓</p> <p>Many layers ✓ to trap air to increase insulation ✓</p> <p>Sun glasses ✓ to ensure good vision ✓</p> <p>Walking boots ✓ Dried food ✓ light to carry/relatively easy to cook ✓</p> <p>Energy food ✓ to provide body with energy to cope with physical challenge</p> <p>Gun/knife ✓ for protection from animals ✓</p> <p>GPS ✓ for accurate location/tracking ✓</p> <p>Radio ✓ to keep in contact in case of emergency ✓ (Mobile phone mark only if well argued)</p> <p>[4x1 + 4x1]</p>	[8]
4(a)	<p>Describe ONE source that you found useful when studying your extreme environment. Explain why it was helpful.</p> <p>Description of resource (book/magazine/DVD/photograph etc) ✓</p> <p>1 mark reserved.</p> <p>Point marking with ONE development mark available for reasons</p> <p>DVD had a lot of information about how people used the environment ✓</p> <p>It gave me a lot of facts and figures ✓ and also showed how difficult it was to live there ✓</p> <p>E.g.</p> <p>DVD had images that showed what the landscape was like ✓ It was an up to date resource ✓ which meant that it showed the environment as it currently is ✓ (dev)</p> <p>[1 reserved + (1+1+1) OR</p> <p>[1 reserved (+ 1+1+dev) = [4]</p>	[4]

Section B - Your Chosen Extreme Environment		
Question Number	Answer	Max Mark
4(b)(i)	<p>How do you think your chosen extreme environment may change in the future?</p> <p>MARKS</p> <p>Point marking with ONE development mark available for reasons</p> <p>Migration away from area ✓ increased isolation ✓ fewer jobs ✓</p> <p>Growth in tourism ✓ development of local infrastructure to aid this ✓ more job opportunities/less out migration ✓ (dev)</p> <p>[1 reserved + (1+1+1) OR</p> <p>[1 reserved + (1+1+dev) = [4]</p> <p>Changes may be physical, human, environmental or a combination of each.</p>	[4]
4(b)(ii)	<p>Design a poster that will tell people how important it is to look after your extreme environment.</p> <p>Reasons for looking after environment may be physical, human, environmental or a combination of each.</p> <p>Level 3 [5-6 marks]</p> <p>Relevant reasons such as importance of fragile ecosystems in extreme environment, indigenous peoples, uniqueness of landscape etc combined with excellent use of visual representation to communicate ideas – 4 marks.</p> <p>Level 2 [3-4 marks]</p> <p>Some relevant reasons with good visual representation to communicate ideas 2-3 marks.</p> <p>Level 1 [1-2 marks]</p> <p>Limited reasons given for importance of environment and poor use of visual representation – 1 mark.</p> <p>0 marks</p> <p>No evidence submitted or response does not address the question.</p>	[6]
Section B Total		[31]
Paper Total		[50]

Assessment Objectives Grid (includes QWC)

Question	AO1	AO2	AO3	Total
1(a)	1	0		1
1(b)	2	0		2
1(c)	2	1		3
1(d)	3	1		4
1(e)	3			3
2(a)	2			2
2(b)	2	2		4
3(a)	2	1		3
3(b)	2	3	1	6
3(c)	4	2	2	8
4(a)	1	1	2	4
4(b)(i)	2	1	1	4
4(b)(ii)		2	4	6
Totals	26	14	10	50